UTILIZING ANSA AND META SCRIPTING CAPABILITIES FOR PROPELLER GENERATION, EVALUATION AND POST PROCESSING

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ABSTRACT –
Volvo Penta develops, manufactures and markets world leading engines and complete power systems for boats and industrial applications.

In this paper we focus on three different aspects, the cad generation, the evaluation and the post processing of results on propellers

On the first topic we evaluate scanned propellers provided by suppliers. In that way we are able to give feedback regarding wrong propeller generation. Currently the evaluation is done automatically with a script that runs in METAPOST.
The next step is the generation of the whole propeller in ANSA, so as the propeller design engineer will have full control over the geometry.
The last subject is the analysis of CFD results in METAPOST.